



SIMATIC S7-300, DIGITAL OUTPUT SM 322,
OPTICALLY ISOLATED 16DO,
RELAY CONTACTS, 1 X 20 PIN

Supply voltage	
Load voltage L+	
Rated value (DC)	120 V
Load voltage L1	
Rated value (AC)	230 V
Input current	
from backplane bus 5 V DC, max.	100 mA
Power losses	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16 ; Relays
Switching capacity of the outputs	
Lamp load, max.	50 W ; 230 V AC
Output current	
for signal "1" rated value	2 A
for signal "1" minimum load current	10 mA
Switching frequency	
with resistive load, max.	1 Hz

with inductive load, max.	0.5 Hz
on lamp load, max.	1 Hz
mechanical, max.	10 Hz
Aggregate current of outputs (per group)	
horizontal installation	
up to 60 °C, max.	8 A
vertical installation	
up to 40 °C, max.	8 A
Relay outputs	
Rated input voltage of relay coil L+ (DC)	24 V
Number of operating cycles, max.	100000 ; 50000 (24 V DC, at 2 A); 700000 (120 V AC, at 2 A); 100000 (230 V AC, at 2 A)
Switching capacity of contacts	
with inductive load, max.	2 A ; 2 A (230 V AC), 2 A (24 V DC)
with resistive load, max.	2 A ; 2 A (230 V AC), 2 A (24 V DC)
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Diagnostic messages	
Diagnostics	No
Wire break	No
Short circuit	No
Fuse blown	No
Missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	No
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	8
between the channels and the backplane bus	Yes ; Optocoupler
Isolation	
Isolation checked with	1500 V AC
Connection method	
required front connector	20-pin

Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	250 g
Status	Jan 23, 2014